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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/842,750      | 04/25/2001  | B. Arlen Young       | ADPT1048            | 8262             |

7590 01/02/2004

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| EXAMINER |
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FAROOQ, MOHAMMAD O

|          |              |
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| ART UNIT | PAPER NUMBER |
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2182

DATE MAILED: 01/02/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/842,750

Applicant(s)

YOUNG, B. ARLEN

Examiner

Mohammad O. Farooq

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 06 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keaveny et al., U.S. Pat. No. 6,065,087 in view of Simms et al. U.S. Pat. No. 6,161,155.
2. As to claim 7, Keaveny et al. teach a SCSI initiator system comprising:  
a target execution queue (target) and a SCSI target wherein the target execution queue is stored in a memory (see fig. 3A-3C; col. 4, lines 40-67); and  
a packetized SCSI protocol hardware packet engine (initiator; fig. 3A-3C) coupled to the target execution queue, wherein the packetized SCSI protocol hardware packet engine transmits a packetized SCSI protocol command block in said target execution queue (target devices) with substantially zero latency between transmission of adjacent packetized SCSI protocol command blocks (by providing greater throughput; col. 2, lines 36-54).

Keaveny et al. do not teach two hardware I/O control blocks. Simms et al. teach two hardware I/O control blocks (data packet A and data packet B; item 32, fig. 1). However, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the teachings of Keaveny et al. and Simms et al. because that would provide logical link between the data packets initiator and target devices (col. 1, lines 61-67; col. 2, lines 1-8; col. 5, lines 12-54).

3. As to claim 8, Keaveny et al. teach hardware packet engine comprising a hardware information unit transfer controller having a start input line and a data out phase input line (inherent) wherein the controller sequence hardware generation of the packetized SCSI command blocks upon receiving an active signal (col. 6, lines 35-54; col. 7, lines 61- col. 8, lines 60).

4. As to claim 9, Keaveny et al. teach header generator coupled to the hardware information unit transfer controller (since it generates header; fig. 3A-3C), wherein the header generator generated fields in a command L\_Q information unit in response to signals from the hardware information unit transfer controller (col. 7, lines 1-23, 61-67; col. 8, lines 1-60).

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5. As to claims 10 and 11, Keaveny et al. teach hardware packet engine comprise a hardware body generator which generates fields in a command information unit in response to signals from the hardware information unit transfer controller (inherent, since the system asserts signals such as ATN; col. 6, lines 15-54).

6. As to claims 12-15, Keaveny et al. teach the system comprising a pointer register (to hold pointers; fig. 3B; col. 7, lines 1-23).

7. Method claims 1-6 and 21 have similar limitations as apparatus claims 7-15. Keaveny et al. and Simms et al. in combination teach apparatus claims 7-15. Therefore, Keaveny et al. and Simms et al. in combination also teach method as set forth in claims 1-6 and 21.

8. Claims 16-20 have similar limitations as apparatus claims 7-15. Keaveny et al. and Simms et al. in combination teach apparatus claims 7-15. Therefore, Keaveny et al. and Simms et al. in combination also teach apparatus as set forth in claims 16-20.

### ***Response to Arguments***

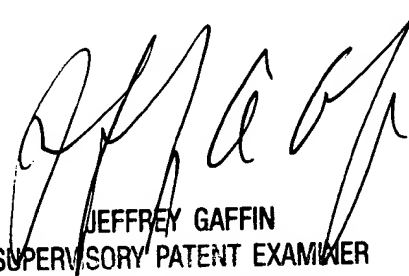
9. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad O. Farooq whose telephone number is (703) 305-3888. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin can be reached on (703) 308-3301. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.



JEFFREY GAFFIN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

Mohammad O. Farooq  
December 23, 2003